

ACTIVITY HAZARD ANALYSIS (AHA) REVIEW

COE EM 385-1-1 para 01.A.13.b: Work will not begin until the hazard analysis for the work activity has been accepted by the Government's designated authority and discussed with all engaged in the activity, including the contractor, subcontractor(s), and Government on-site representative.

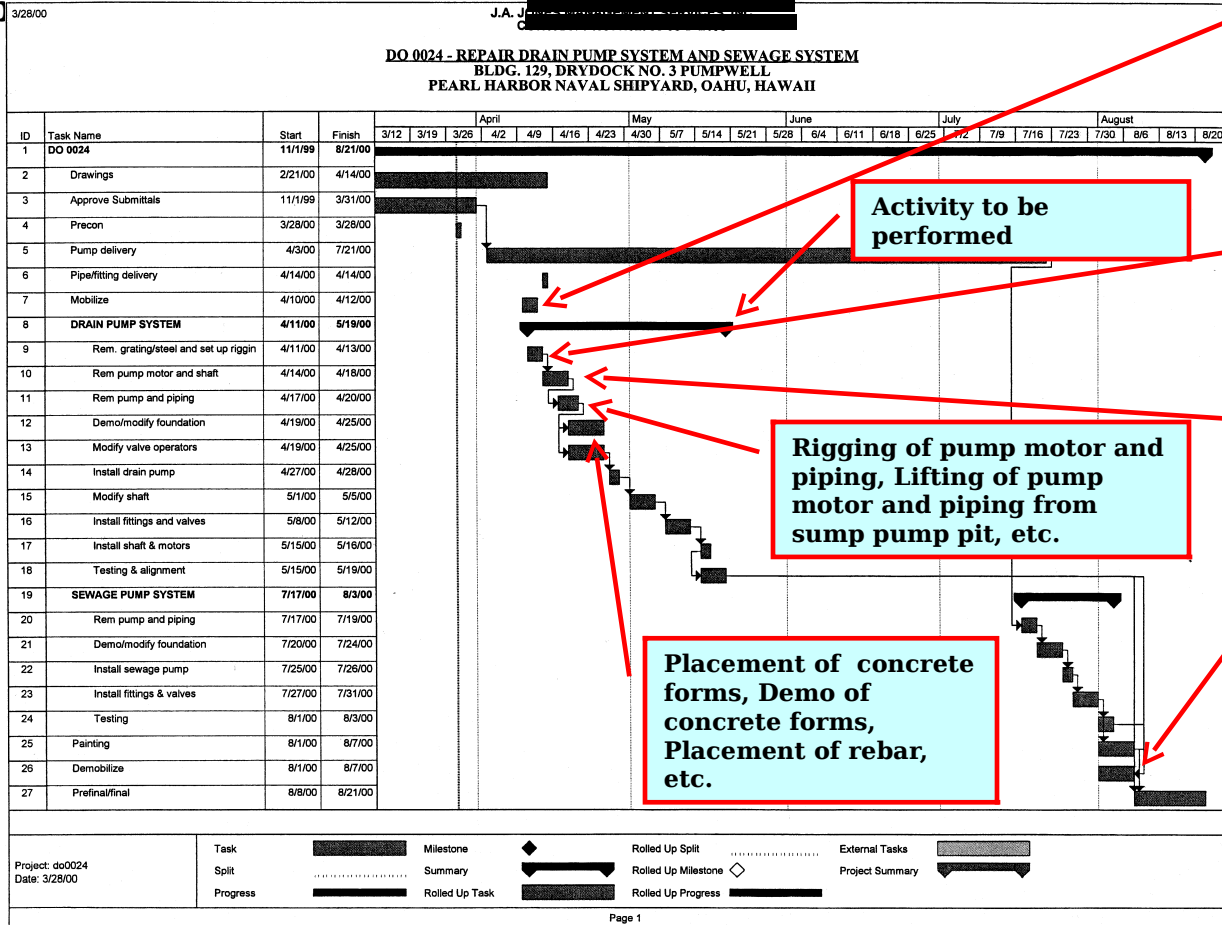
"Principle Steps" column identify "Sequences of Work" such as Mobilization, Fencing, Demolition, Asbestos Abatement, Electrical Distribution, etc. Contractor "Construction Schedule or Construction Progress Chart" is a good guide to identify "Sequences of Work" (See page 2).

Within each identified "Sequences of Work" there may be other successive steps to complete that phase of work such as Removal of lockers, LOTO of electrical systems, Protecting members of the public, A/C ducting installation work, Use of crane to lift 5,000 lbs. A/C unit, Excavations deeper than 6 ft for utilities, etc.

Activity:	DEMOLITION	Date of Preparatory:	3/1/00	Analysis by/Date:
Project:	Pearl Harbor, Hawaii	Task Order 005	Estimate Start Date:	3/1/00
Location:	Task Order 005	Principal Steps	Potential Hazards	Recommended Controls
DO#	06973	DEMOLITION	Personal Protective Equipments	Ensure personnel have the use of hard hats, safety shoes, gloves & short sleeves t-shirts.
WR#				Ensure personnel use gloves to protects hands from sharp edges.
				Wear face/dust masks as necessary.
			Electric Shock	Survey the work area and check utilities that needs to turn off.
				Each employee handling small tools will be instructed as to safe handling and its use.
				All plugs- in power tools to use GFCI.
			Faulty Equipment	Ensure equipment is maintained in good working order & properly used.
				Ensure that equipment is stopped and secured from movement before servicing or repaired.
				Check equipment daily before use.
			General Safety	Ensure that proper barricade materials and signs have been placed.
				Use proper barricade like tape to mark off limits areas.
				Supervisor and Foreman are to actively stop Non- construction personnel from entering the jobsite area without proper escort.
				Ensure proper caution signs posted.
				Ensure flying dust is controlled by mapping with wet map.
			Back- strains	Each employee should be instructed in safe lifting procedures.
				Objects weighing over 80# requires 2 people.
			Falling ,tripping and cuts	Ensure personnel pratice proper housekeeping to prevent tripping & cutting.

ACTIVITY HAZARD ANALYSIS (AHA) REVIEW

The below are examples of major “Sequences of Work” or “Phases of Work” that could be identified on the AHAs as “Principle Steps” or successive steps to complete a sequence or p



Examples of Principle Steps from start to finish.

Within each Principle Step there may be other Successive Steps to complete the above Principle Steps.

The blocks on the right are examples of other Successive Steps.

Activity to be performed

Rigging of pump motor and piping, Lifting of pump motor and piping from sump pump pit, etc.

Placement of concrete forms, Demo of concrete forms, Placement of rebar, etc.

Installation of perimeter fencing, Placement of field office trailer, Installation of fall protection anchors, Unloading heavy equipment, etc.

Installation of rigging components, Lifting of steel grating, Torch cutting on steel

LOTO pump motor, Removal of lead paint on bolts and piping, Unbolting pump motor from housing, etc.

Removal of project fencing, Removal of field office, Loading of heavy equipment, Clean up of staging area of debris, etc.

COE EM385-1-1 para 01.A.13.a: Analysis will define the activities being performed and identify the sequences of work, the specific hazards anticipated **site conditions, equipment, materials**, and the site specific control measures to be implemented to eliminate or reduce each hazard to an acceptable level.

ACTIVITY HAZARD ANALYSIS (AHA) REVIEW

List of questions that will help you identify most hazards:

(a) Is there danger of striking against, being struck by, or otherwise making injurious contact with an object?

(b) Can the employee slip or trip?

(c) Can the employee be caught in, on or between objects?

(d) Can the employee fall on the same level or to another?

(e) Can the employee strain themselves by pushing, pulling or lifting?

(f) Is there possibility of electrical, health or fire hazards?

(g) Is there a possibility of employee coming in contact with a hazardous chemical or substance?

“Potential Hazard” column lists potential or anticipated hazards for each “Sequences of Work” or “Phases of Work” identified from the “Principle Step” column.

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WR#	06973	3/1/00	
Principal Steps	Potential Hazards	Recommended Controls	
DEMOLITION	Personal Protective Equipments	Ensure personnel have the use of hard hats, safety shoes, gloves & short sleeves t-shirts.	
		Ensure personnel use gloves to protects hands from sharp edges.	
		Wear face/dust masks as necessary.	
	Electric Shock	Survey the work area and check utilities that needs to turn off.	
		Each employee handling small tools will be instructed as to safe handling and its use.	
		All plugs- in power tools to use GFCI.	
	Faulty Equipment	Ensure equipment is maintained in good working order & properly used.	
		Ensure that equipment is stopped and secured from movement before servicing or repaired.	
		Check equipment daily before use.	
	General Safety	Ensure that proper barricade materials and signs have been placed.	
		Use proper barricade like tape to mark off limits areas.	
		Supervisor and Foreman are to actively stop Non- construction personnel from3 entering the jobsite area without proper escort.	
		Ensure proper caution signs posted.	
		Ensure flying dust is controlled by mapping with wet map.	
	Back- strains	Each employee should be instructed in safe lifting procedures.	
		Objects weighing over 80# requires 2 people.	
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ACTIVITY HAZARD ANALYSIS (AHA) REVIEW

“Potential Hazard” column can have “General Safety” as a potential hazard to include minimal PPE dress for ROICC projects. “General Safety” should be identified for every phase of work.

ACTIVITY HAZARD ANALYSIS			
Contract No: ROICC 005 E101			
Activity:	DEMOLITION	Date of Preparatory:	Analysis by/Date:
Project:	PEARL HARBOR WALL RESTORE	3/1/00	
Location:	Pearl Harbor, Hawaii	Estimate Start Date:	Reviewed By/Date:
DO#	Task Order 005	3/1/00	
WR#	06973		
Principal Steps	Potential Hazards	Recommended Controls	
DEMOLITION	Personal Protective Equipments	Ensure personnel have the use of hard hats, safety shoes, gloves & short sleeves t-shirts. Ensure personnel use gloves to protects hands from sharp edges. Wear face/dust masks as necessary. Survey the work area and check utilities that needs to turn off. Each employee handling small tools will be instructed as to safe handling and its use. All plugs- in power tools to use GFCI. Ensure equipment is maintained in good working order & properly used. Ensure that equipment is stopped and secured from movement before servicing or repaired. Check equipment daily before use. Ensure that proper barricade materials and signs have been placed. Use proper barricade like tape to mark off limits areas. Supervisor and Foreman are to actively stop Non- construction personnel from3 entering the jobsite area without proper escort. Ensure proper caution signs posted. Ensure flying dust is controlled by mapping with wet map.	
	Electric Shock		
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	General Safety		
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Good examples of “Potential Hazards”

ACTIVITY HAZARD ANALYSIS (AHA) REVIEW

“Recommended Controls” column identify site specific control measures to be implemented to eliminate or reduce each hazard identified in the “Potential Hazard” column to an acceptable level.

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To help you come up with ideas for the solution ask the following:

(a) How can the conditions be changed to eliminate the hazard?

(b) What can the employee do to prevent accident or eliminate the hazard?

ACTIVITY HAZARD ANALYSIS (AHA) REVIEW

Your recommended controls measures are to be site specific and should provide sufficient information to personnel on how to eliminate or reduce anticipated hazards for each phase of work. General statements such as Provide adequate fall protection, Proper shoring techniques will be followed, LOTO procedures will be implemented, etc. are not site specific recommend controls measures and will not be accepted. Site specific plans such as Fall Protection, Confined Space, LOTO, Critical Lift, etc. can be attached to the AHAs as a supplement to the AHAs.

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General statements that are not acceptable

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						Ensure personnel use caution when cutting to prevent injury.
			Falling Loads			Ensure stockpiled materials do not slide or fall on personnel.
						Ensure personnel remain clear when removal works. Use back ups if necessary
Equipment To Be Used			Inspection Requirements			Training Requirements

List equipment to be used for the phase of work such as crane, backhoe, powder actuated tools, electric saws/drill, etc.

List inspection requirements for the phase of work such as confined space by an competent person, daily housekeeping, hand and power tools daily inspections, machinery and equipment inspected daily, etc.

List training requirements for the phase of work, such as fall protection, confined space, HAZWOPER, qualified equipment operators, safe use of ladders, etc.